

Band Pass Filter

RBP-275+ RBP-275

268 to 282 MHz

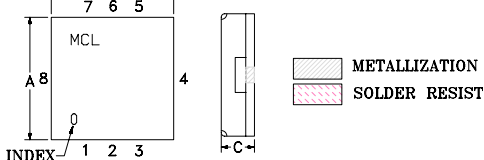
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

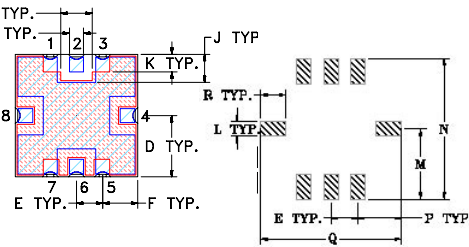
Pin Connections

RF IN	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8

Outline Drawing



METALLIZATION
SOLDER RESIST



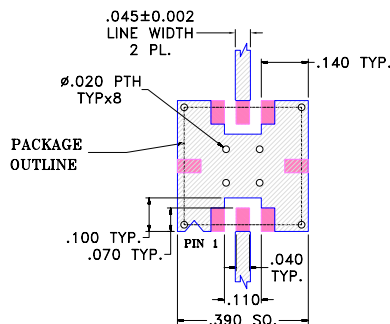
SUGGESTED LAYOUT FOR P.C. PATTERN
PATTERN TOLERANCE TO BE WITHIN ± 0.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.090	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.29	1.02	2.03

K	L	M	N	P	Q	R	wt.
.050	.040	.195	.390	.120	.390	.070	grams
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25

Demo Board MCL P/N: TB-332
Suggested PCB Layout (PL-176)



- NOTE:
- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS. $.025 \pm .002$ ". COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

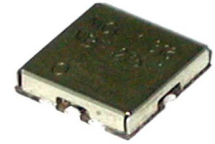
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- Good Return Loss, 20 dB Typ @ Pass Band
- Small Size(0.35" X 0.35")

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



CASE STYLE: GP731

PRICE: \$15.95 ea. QTY (1-9)

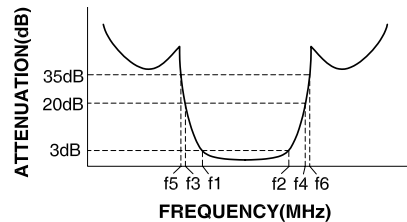
+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

The + suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.

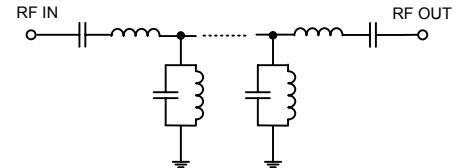
Band Pass Filter Electrical Specifications ($T_{AMB} = 25^\circ\text{C}$)

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) f1-f2	STOPBANDS (MHz)				VSWR (:1)	
			Loss>20dB f3	Loss>35dB f4	Loss>35dB f5	Loss>35dB f6	Passband Max.	Stopband Typ.
RBP-275(+)	275	268-282	209	350	120	370-1000	1.7	18

Typical Frequency Response



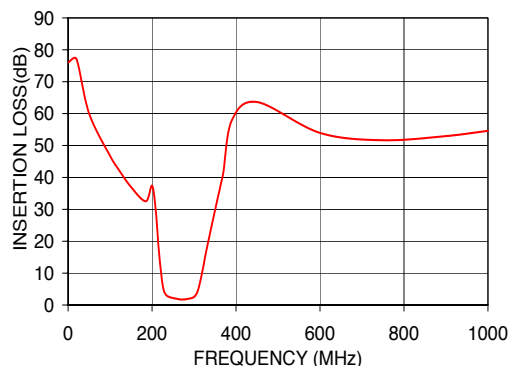
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	76.04	579.06
120.0	42.54	108.58
209.0	29.34	20.22
220.0	11.85	7.94
225.0	6.57	3.95
230.0	3.90	2.39
268.0	1.73	1.11
275.0	1.75	1.04
282.0	1.85	1.21
310.0	4.88	2.27
320.0	10.72	6.32
330.0	17.48	12.99
350.0	29.80	27.59
370.0	41.72	41.37
450.0	63.62	72.39
1000.0	54.60	69.49

RBP-275
INSERTION LOSS



RBP-275
VSWR

